

FIG. 1

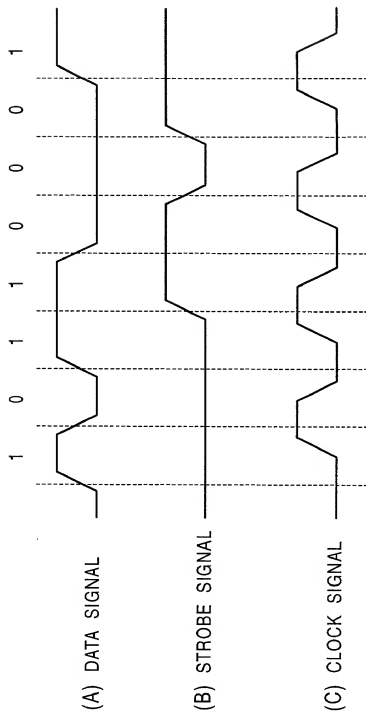


FIG. 2

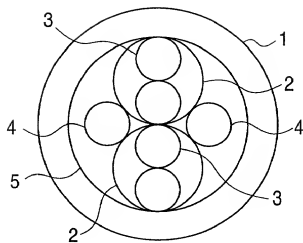


FIG. 3

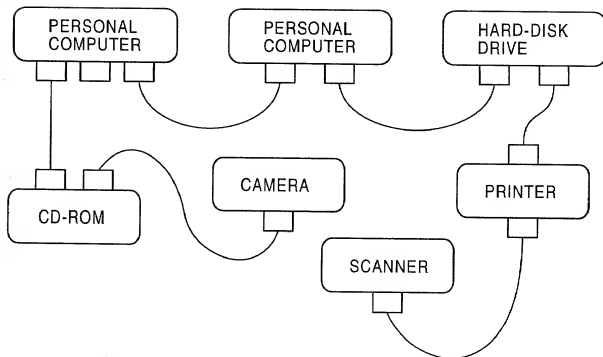


FIG. 4

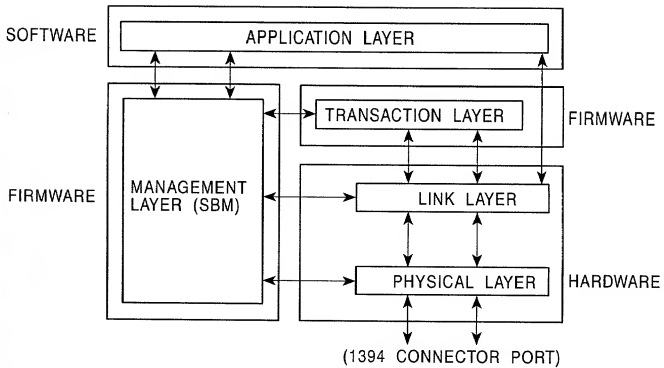


FIG. 5

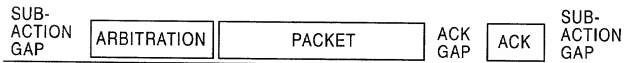


FIG. 6A

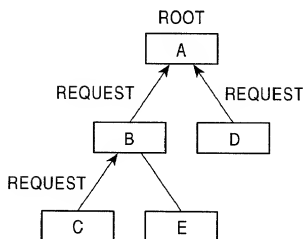


FIG. 6B

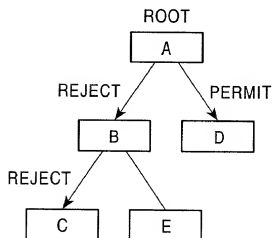


FIG. 7

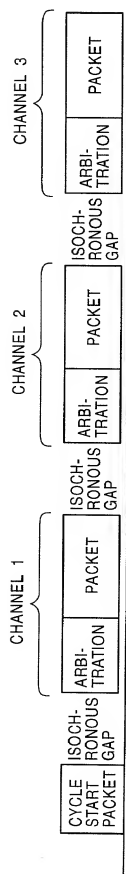


FIG. 8

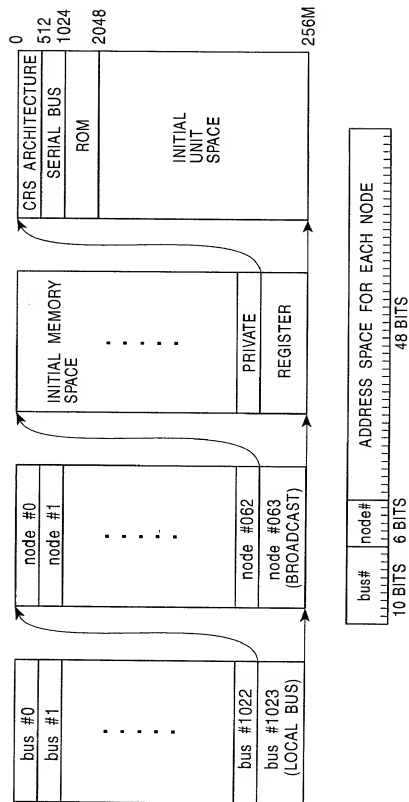


FIG. 9

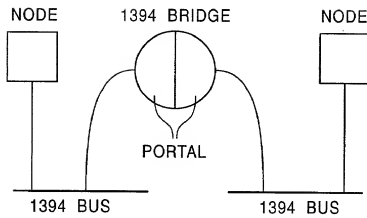


FIG. 10

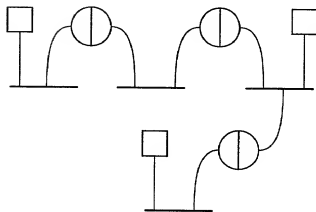


FIG. 11

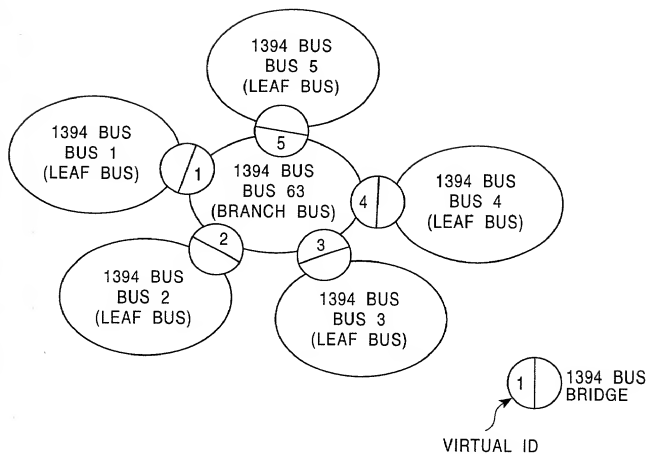
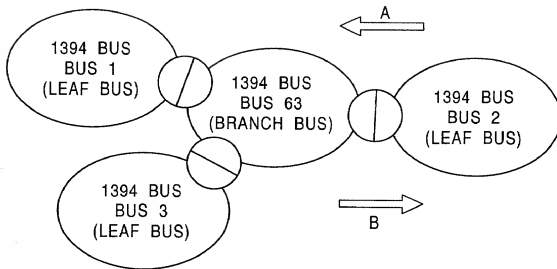


FIG. 12



DIRECTION A : PACKET HAVING TRANSMISSION
DESTINATION OTHER THAN BUS ID 2

DIRECTION B : ONLY PACKET HAVING TRANSMISSION
DESTINATION OF BUS ID 2

FIG. 13

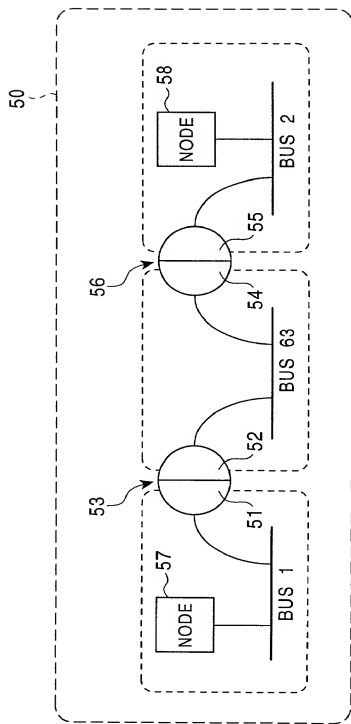


FIG. 14

| TRANSMISSION DESTINATION BUS ID | PROCESSING |
|---|--|
| ID OF BUS TO WHICH THE OTHER-SIDE PORTAL IS CONNECTED | PORTAL RETURNS <code>ack_complete</code> FOR RESPONSE AND <code>ack_pending</code> FOR REQUEST. THEN, PORTAL TRANSMITS PACKET TO THE OTHER-SIDE PORTAL |
| OTHER THAN ABOVE | PORTAL IGNORES PACKET. (IT IS EXPECTED THAT ANOTHER PORTAL PERFORMS ROUTING.) |

FIG. 15

| TRANSMISSION DESTINATION BUS ID | PROCESSING |
|---|---|
| IDS OTHER THAN THAT OF BUS TO WHICH ITSELF IS CONNECTED | PORTAL RETURNS <code>ack_complete</code> FOR RESPONSE AND <code>ack_pending</code> FOR REQUEST. THEN, PORTAL TRANSMITS PACKET TO THE OTHER-SIDE PORTAL. |
| OTHER THAN ABOVE | PORTAL IGNORES PACKET. (NOT ACCESS TO OTHER BUSES) |

FIG. 16

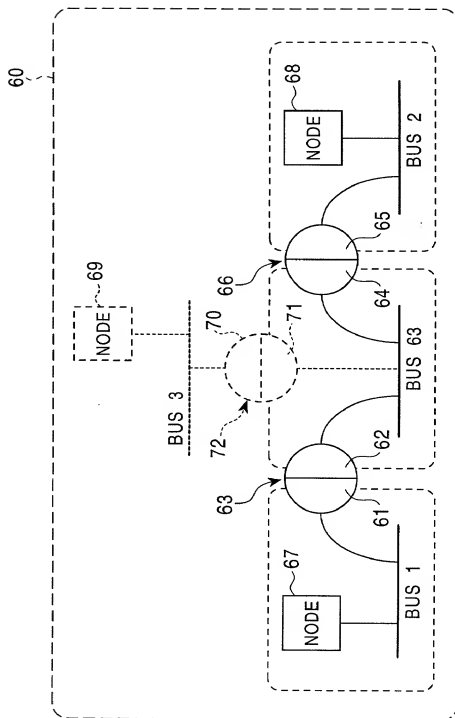


FIG. 17

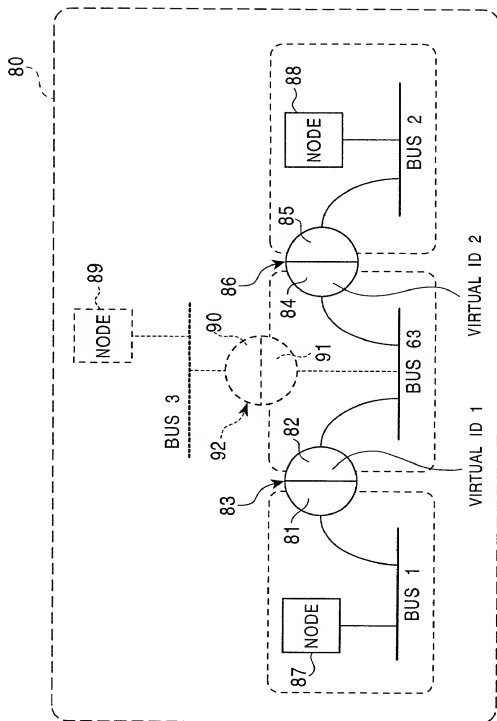


FIG. 18A

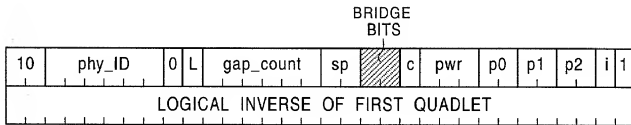


FIG. 18B

| VALUE | DEFINITION | REMARKS |
|-------|---------------------------------|----------------------------------|
| 00b | NON-BRIDGE DEVICE | CONVENTIONAL 1394 DEVICE |
| 01b | DEVICE WITH BRIDGE FUNCTION | DEVICE HAVING BRIDGE FUNCTION |
| 10b | BRIDGE AS DEFINED BY P1394.1 | P1394.1 DEVICE |
| 11b | BRIDGE AS DEFINED BY P1394.1 | P1394.1 DEVICE |

FIG. 19

| NODE ID | RESERVED (2 BITS) | VIRTUAL ID (6 BITS) |
|---------|----------------------|------------------------|
| 0 | 00 | 4 |
| 1 | 00 | 3 |
| 2 | 00 | 5 |
| 3 | 00 | 2 |
| 4 | 00 | 1 |
| 5 | 00 | 7 |
| 6 | 00 | 0 |
| 7 | 00 | 6 |

FIG. 20

| NODE ID | RESERVED (2 BITS) | BRIDGE (1 BIT) | VIRTUAL ID (6 BITS) |
|---------|----------------------|-------------------|------------------------|
| 0 | 00 | 0 | 4 |
| 1 | 00 | 0 | 3 |
| 2 | 00 | 0 | 5 |
| 3 | 00 | 1 | 2 |
| 4 | 00 | 1 | 1 |
| 5 | 00 | 0 | 7 |
| 6 | 00 | 0 | 0 |
| 7 | 00 | 0 | 6 |

FIG. 21

| TRANSMISSION DESTINATION BUS ID | PROCESSING | |
|---|--|---|
| ID OF BUS TO WHICH THE OTHER-SIDE PORTAL IS CONNECTED | | PORTAL RETURNS <code>ack_complete</code> FOR RESPONSE AND <code>ack_pending</code> FOR REQUEST. THEN, PORTAL TRANSMITS PACKET TO THE OTHER-SIDE PORTAL |
| OTHER THAN ABOVE | PORTAL HAVING LARGEST VIRTUAL ID | WHEN Phy ID OF PORTAL CONNECTED TO BUS MATCHES TRANSMISSION DESTINATION BUS ID, PORTAL IGNORES PACKET. IN THE OTHER CASES, PORTAL HANDLES PACKET AS ERROR AND RETURNS <code>ack_address_err</code> |
| | OTHER THAN ABOVE | PORTAL IGNORES PACKET (IT IS EXPECTED THAT ANOTHER PORTAL APPLIES PROCESSING) |

FIG. 22

